

CONFIDENTIAL

Wally
Walk

16 May 1958

MEMORANDUM FOR THE RECORD**SUBJECT: Destructor System,** [redacted]

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1. On 9 May 58, [redacted] and the undersigned visited [redacted] to discuss the Equipment Safeguard Unit and the [redacted] holder explosive.

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2. Five tests were run to determine the effectiveness of the explosive insert made for the 9 inch long [redacted] film spool. The end cap which detonated the explosive was located with a 1/8 inch air gap between it and the end of the explosive. All five tests were successful and the film was shattered into pieces no larger than one inch square. Occasionally, strips of film 1/4 inch wide and 5 inches long would fuse together, however it was felt that no intelligence could be removed from these fragments. We will receive [redacted] inserts for our testing and use.

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[redacted] had received two spools from [redacted] which had a larger ID than the original ones. Upon checking with [redacted] the undersigned learned that he had intended to substitute the larger ID spool in the W-equipment developer. He was reminded of the decision not to change real sizes agreed upon at a meeting which he attended on 6 Feb 58. With this, he again agreed to use the original spool in the take-up side of the equipment. [redacted] also mentioned that 2 mock-ups of the equipment were being put together and would soon be shipped to us.

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2. Five Equipment Safeguard Units were tested for functioning by manually operating them and checking delay times and ignition of primary cord from the two boosters. All five tests were successful and delay times ranged from 35 to 38 seconds.

Twenty five units will be assembled as fast as they can be made and started in the environmental testing program. This program is the same as the one outlined in the original proposal except the shock test is being omitted on the grounds that it does not add any useful information. The following tests will be made at [redacted]

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Temperature
Transportation Vibration
Salt Spray
Water Immersion (12" for 24 hours)
Acceleration (5 g's)
Vibration (for jet aircraft)
Altitude (3 cycles to 40,000 feet)

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3. Two hundred delay columns have been tested - 100 at ambient temperature, 50 at - 65°F, and 50 at + 160°F. Delay times ranged between 30 seconds at + 160°F and 41 seconds at - 65°F.

4. Previous sticky problems such as water leaks, hung firing pins, and failure to ignite primers have been solved and the Safeguard Unit now appears safe and reliable subject to the success of the environmental tests.



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